

ICD-10-PCS 2007 Version

Coordination & Maintenance
Committee Meeting

March 22, 2007

CMS Headquarters—Baltimore

http://www.cms.hhs.gov/ICD9ProviderDiagnosticCodes/08_ICD10.asp

The screenshot shows a Microsoft Internet Explorer 6.0 window displaying the CMS website. The address bar shows the URL: http://www.cms.hhs.gov/ICD9ProviderDiagnosticCodes/08_ICD10.asp. The page header includes the U.S. Department of Health & Human Services logo and the CMS logo. The main navigation bar lists various categories: Home, Medicare, Medicaid, SCHIP, About CMS, Regulations & Guidance, Research, Statistics, Data & Systems, Outreach & Education, and Tools. Below this, a secondary navigation bar lists links for People with Medicare & Medicaid, Questions, Careers, Newsroom, Contact CMS, Acronyms, Help, Email, and Print. The breadcrumb trail reads: CMS Home > Medicare > ICD-9 Provider & Diagnostic Codes > ICD-10-PCS Coding System and Reference Manual. The page is divided into two main sections. The left section, titled "ICD-9 Provider & Diagnostic Codes", contains a list of links: Overview, Process for Requesting New/Revised ICD-9-CM Procedure Codes, ICD-9-CM Coordination and Maintenance Committee Meetings, Updates and Revisions to ICD-9-CM Procedure Codes (Addendum), CD-ROM Version Of ICD-9-CM, Diagnosis and Procedure Codes and Their Abbreviated Titles, New, Deleted, and Revised ICD-9-CM Codes - Summary Tables, and ICD-10-PCS Coding System and Reference Manual (highlighted). The right section, titled "ICD-10-PCS Coding System and Reference Manual", contains the following text: "The ICD-10-PCS files below contain information on the proposed new procedure coding system, ICD-10-PCS, that is being developed as a replacement for ICD-9-CM, Volume 3. Because of the effect any new coding system would have on national data, the current draft system is being made available on CMS's Home Page for review." Below this text is a link to "Visit the National Center for Health Statistics' web site for additional ICD-9-CM and ICD-10 information." Further down is a section titled "Instructions for Opening ZIP Files" with a "NOTE: You must have Zip software loaded on your PC" and a list of three steps: 1. Click on the link above. 2. When the "File Download" box appears, click on the "Open" button. 3. Double-click on the file that you would like to view. At the bottom of the right section is a "Downloads" section with three links: "2007 Version - What's New [PDF, 36KB]", "Code Tables and Index [PDF, 10.5MB]", and "Mapping - ICD-10-PCS to ICD-9-CM and ICD-9-CM to ICD-10-PCS [ZIP, 619KB] - updated 2/12/07". The taskbar at the bottom shows the Start button and several open applications: Rhonda R. Butler - Calen..., C:\Documents and Sett..., Microsoft PowerPoint - [...], and ICD-10-PCS Coding Sy... The system clock shows 7:16 AM.

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CMS Home > Medicare > ICD-9 Provider & Diagnostic Codes > ICD-10-PCS Coding System and Reference Manual

ICD-9 Provider & Diagnostic Codes

- » Overview
- » Process for Requesting New/Revised ICD-9-CM Procedure Codes
- » ICD-9-CM Coordination and Maintenance Committee Meetings
- » Updates and Revisions to ICD-9-CM Procedure Codes (Addendum)
- » CD-ROM Version Of ICD-9-CM
- » Diagnosis and Procedure Codes and Their Abbreviated Titles
- » New, Deleted, and Revised ICD-9-CM Codes - Summary Tables
- » **ICD-10-PCS Coding System and Reference Manual**

ICD-10-PCS Coding System and Reference Manual

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Visit the National Center for Health Statistics' web site for additional ICD-9-CM and ICD-10 information.

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Downloads

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ICD-10-PCS 2007 Version Options

Option 1: Current Format

- Same as 2006 version—dozens of separate pdf files
 - Separate 'master menu' hyperlink page
 - Separate hyperlinks to Tables and Index

Option 2: Three File Basic

- Three separate files—Med/Surg and related, Ancillary Sections, Index
 - Single level of bookmarks within files

Option 3: One File Linked

- Hyperlinks generated within pdf, simplifies file download
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 - Nested bookmarks at front of Tables
 - Hyperlinks from each Index entry to individual table

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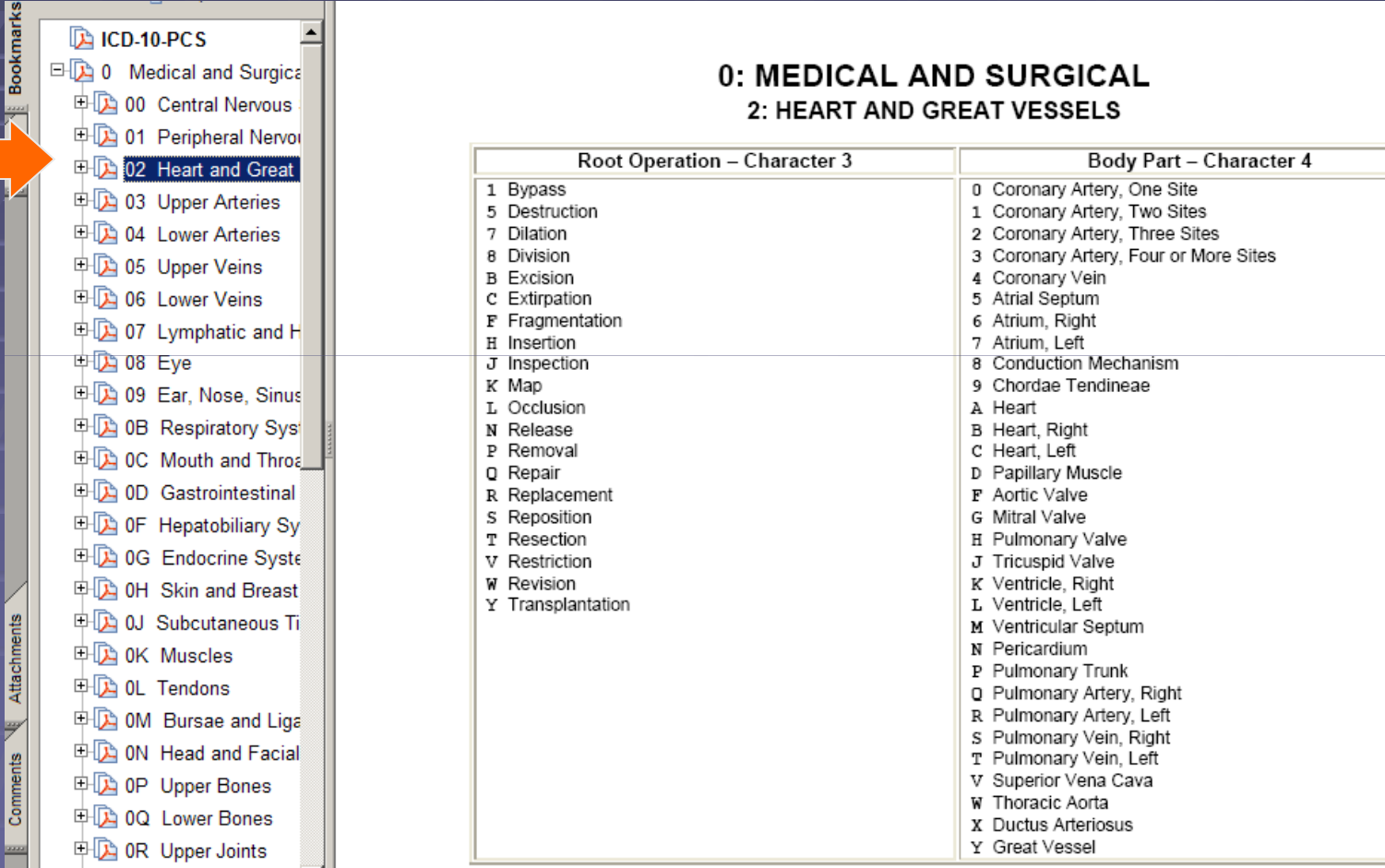
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Option 3: One File Linked



0: MEDICAL AND SURGICAL
2: HEART AND GREAT VESSELS

Root Operation – Character 3	Body Part – Character 4
1 Bypass	0 Coronary Artery, One Site
5 Destruction	1 Coronary Artery, Two Sites
7 Dilation	2 Coronary Artery, Three Sites
8 Division	3 Coronary Artery, Four or More Sites
B Excision	4 Coronary Vein
C Extirpation	5 Atrial Septum
F Fragmentation	6 Atrium, Right
H Insertion	7 Atrium, Left
J Inspection	8 Conduction Mechanism
K Map	9 Chordae Tendineae
L Occlusion	A Heart
N Release	B Heart, Right
P Removal	C Heart, Left
Q Repair	D Papillary Muscle
R Replacement	F Aortic Valve
S Reposition	G Mitral Valve
T Resection	H Pulmonary Valve
V Restriction	J Tricuspid Valve
W Revision	K Ventricle, Right
Y Transplantation	L Ventricle, Left
	M Ventricular Septum
	N Pericardium
	P Pulmonary Trunk
	Q Pulmonary Artery, Right
	R Pulmonary Artery, Left
	S Pulmonary Vein, Right
	T Pulmonary Vein, Left
	V Superior Vena Cava
	W Thoracic Aorta
	X Ductus Arteriosus
	Y Great Vessel

Option 3: One File Linked

Options

ICD-10-PCS

- 0 Medical and Surgical
- 00 Central Nervous System
- 01 Peripheral Nervous System
- 02 Heart and Great Vessels
 - 021 Bypass**
 - 025 Destruction
 - 027 Dilation
 - 028 Division
 - 02B Excision
 - 02C Extirpation
 - 02F Fragmentation
 - 02H Insertion
 - 02J Inspection
 - 02K Map
 - 02L Occlusion
 - 02N Release
 - 02P Removal
 - 02Q Repair
 - 02R Replacement
 - 02S Reposition
 - 02T Resection

021

0: MEDICAL AND SURGICAL 2: HEART AND GREAT VESSELS 1: BYPASS: Altering the route of passage of the contents of a tubular body part			
Body Part Character 4	Approach Character 5	Device Character 6	Qualifier Character 7
0 Coronary Artery, One Site 1 Coronary Artery, Two Sites 2 Coronary Artery, Three Sites 3 Coronary Artery, Four or More Sites	0 Open 4 Percutaneous Endoscopic	9 Autologous Venous Tissue A Autologous Arterial Tissue J Synthetic Substitute K Nonautologous Tissue Substitute	3 Coronary Artery 8 Internal Mammary, Right 9 Internal Mammary, Left C Thoracic Artery F Abdominal Artery W Aorta
0 Coronary Artery, One Site 1 Coronary Artery, Two Sites 2 Coronary Artery, Three Sites 3 Coronary Artery, Four or More Sites	0 Open 4 Percutaneous Endoscopic	Z No Device	3 Coronary Artery 8 Internal Mammary, Right 9 Internal Mammary, Left C Thoracic Artery F Abdominal Artery
0 Coronary Artery, One Site 1 Coronary Artery, Two Sites 2 Coronary Artery, Three Sites 3 Coronary Artery, Four or More Sites	3 Percutaneous 4 Percutaneous Endoscopic	4 Drug-eluting Intraluminal Device D Intraluminal Device	4 Coronary Vein
6 Atrium, Right K Ventricle, Right L Ventricle, Left	0 Open 4 Percutaneous Endoscopic	9 Autologous Venous Tissue A Autologous Arterial Tissue J Synthetic Substitute K Nonautologous Tissue Substitute	Q Pulmonary Artery, Right R Pulmonary Artery, Left
6 Atrium, Right	0 Open 4 Percutaneous Endoscopic	Z No Device	7 Atrium, Left Q Pulmonary Artery, Right R Pulmonary Artery, Left

ICD-10- PCS

General Equivalence Maps (GEM)

- Presents all reasonable correspondences between the two code sets
- Consists of two general equivalence mappings (GEMs)
 - ICD-9-CM to ICD-10-PCS
 - ICD-10-PCS to ICD-9-CM
- Each file contains code pairs—one code from each set
 - Source or target system code may be used more than once
 - Additional information specified using flags

Presents All Reasonable Correspondences: All-inclusive

I-9 to PCS GEM:

Single type entry for ICD-9-CM code 02.11

ICD-9-CM Source→	≈	ICD-10-PCS Target
02.11 Simple suture of dura mater of brain	≈	00Q20ZZ Repair of dura mater, open approach
02.11 Simple suture of dura mater of brain	≈	00Q23ZZ Repair of dura mater, percutaneous approach
02.11 Simple suture of dura mater of brain	≈	00Q24ZZ Repair of dura mater, percutaneous endoscopic approach

Presents All Reasonable Correspondences: Rule-based

Single entry

ICD-9-CM Source→	≈	ICD-10-PCS Target
00.53 Implantation <u>or</u> replacement of CRT pacemaker generator	≈	0JH60P3 Insertion of Cardiac Resynchronization Pacemaker Pulse Generator, Open Approach OR 0JH63P3 Insertion of Cardiac Resynchronization Pacemaker Pulse Generator, Percutaneous Approach

OR

Combination entry

ICD-9-CM Source→	≈	ICD-10-PCS Target
00.53 Implantation <u>or</u> replacement of CRT pacemaker generator	≈	0JPT0PZ Removal of Pacemaker/Defibrillator, Open Approach OR 0JPT3PZ Removal of Pacemaker/Defibrillator, Percutaneous Approach AND 0JH60P3 Insertion of Cardiac Resynchronization Pacemaker Pulse Generator, Open Approach OR 0JH63P3 Insertion of Cardiac Resynchronization Pacemaker Pulse Generator, Percutaneous Approach

Consists of Two GEM Files

ICD-9-CM → ICD-10-PCS
+ flags

688 0DTN0ZZ 101 2 7
688 0DTP0ZZ 101 2 8
688 0TTB0ZZ 101 2 5
688 0TTD0ZZ 101 2 6
688 0UT20ZZ 101 2 2
688 0UT70ZZ 101 2 3
688 0UT90ZZ 101 2 1
688 0UTG0ZZ 101 2 4

ICD-10-PCS → ICD-9-CM
+ flags

02733ZZ 0040 11 1 2
02733ZZ 0041 11 1 2
02733ZZ 0042 11 1 2
02733ZZ 0043 11 1 2
02733ZZ 0066 11 1 1
02733ZZ 3609 10 0 0

Additional Information Specified in Flags

- Read as 1=On, 0=Off
- Three different flags
 - Approximate
 - No Map
 - Combination

Approximate flag 1 “On” = Approximate

The Approximate Flag

I-9 Code	I-9 Description	PCS Code	PCS Description	Approximate [FLAG]	No Map [FLAG]	Combination [FLAG]
02.11	Simple suture of dura mater of brain	00Q20ZZ	Repair of dura mater, open approach	1	0	0
02.11	Simple suture of dura mater of brain	00Q23ZZ	Repair of dura mater, percutaneous approach	1	0	0
02.11	Simple suture of dura mater of brain	00Q24ZZ	Repair of dura mater, percutaneous endoscopic approach	1	0	0

No Map Flag 1 “On” = No Map

The No Map Flag

I-9 Code	I-9 Description	PCS Code	PCS Description	Approximate [FLAG]	No Map [FLAG]	Combination [FLAG]
00.40	Procedure on single vessel	<i>Blank</i>	<i>Blank</i>	0	1	0
00.41	Procedure on two vessels	<i>Blank</i>	<i>Blank</i>	0	1	0
00.42	Procedure on three vessels	<i>Blank</i>	<i>Blank</i>	0	1	0
00.43	Procedure on four or more vessels	<i>Blank</i>	<i>Blank</i>	0	1	0
00.44	Procedure on vessel bifurcation	<i>Blank</i>	<i>Blank</i>	0	1	0

Combination flag 1 “On” = Combination

02733ZZ Dilation of Coronary Artery, Four or More Sites, Percutaneous Approach

PCS Code	PCS Description	I-9 Code	I-9 Description	Approximate [FLAG]	Combination [FLAG]	Scenario#	Choice list#
02733ZZ	Dilation of Coronary Artery, Four or More Sites, Percutaneous Approach	00.66	PTCA or coronary atherectomy	1	1	1	1
02733ZZ	Dilation of Coronary Artery, Four or More Sites, Percutaneous Approach	00.40	Procedure-one vessel	1	1	1	2
02733ZZ	Dilation of Coronary Artery, Four or More Sites, Percutaneous Approach	00.41	Procedure-two vessels	1	1	1	2
02733ZZ	Dilation of Coronary Artery, Four or More Sites, Percutaneous Approach	00.42	Procedure-three vessels	1	1	1	2
02733ZZ	Dilation of Coronary Artery, Four or More Sites, Percutaneous Approach	00.43	Procedure-four+ vessels	1	1	1	2
02733ZZ	Dilation of Coronary Artery, Four or More Sites, Percutaneous Approach	00.44	Proc-vessel bifurcation	1	1	1	2

Documentation and User's Guide

- Posted on website with GEM files
 - <http://www.cms.hhs.gov/ICD9ProviderDiagnosticCodes/Downloads/GEMguide.pdf>
- Revised as needed based on industry response

PCS GEM Files Users Guide

GEM Documentation and Users Guide 2007 version

Procedure Code Set General Equivalence Mappings ICD-10-PCS to ICD-9-CM and ICD-9-CM to ICD-10-PCS 2007 Version Documentation and User's Guide

Preface

Purpose and Audience

This document accompanies the 2007 update of the CMS public domain reference mappings of the ICD-10 Procedure Code System (ICD-10-PCS) and ICD-9-CM Volume 3. The purpose of this document is to give potential users the information they need to understand the structure and relationships contained in the mappings so they can use them correctly. The intended audience includes but is not limited to professionals working in health information, medical research and informatics. General interest readers may find section 1 useful. Those who may benefit from the material in both sections 1 and 2 include clinical and health information professionals who plan to directly use the mappings in their work. Software engineers and IT professionals interested in the details of the file format will find this information in Appendix A.

In This Document

Bookmarks

Signatures

Layers

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Attachments

Comments

GEM Files Users Guide:

Intro to Mappings

so much larger and more specific. However, since I-9 can be inconsistent, there are inevitable cases where it contains more detail than PCS. Aspects of some individual I-9 code descriptions such as diagnosis information were intentionally not included in PCS. This means a single PCS code could be linked to more than one I-9 code option, depending on the purpose of the mapping and the specific documentation in the chart.

Below are two examples where a distinction made in I-9 is not made in PCS. The result is that the PCS code could be linked to more than one I-9 code, because a particular area of the I-9 code set (highlighted in yellow) is more detailed than the norm.

Varying Specificity in ICD-9-CM:
Body Part Subdivided

I-9 contains	I-9 also contains	PCS contains
83.64 Other suture of tendon	83.61 Suture of tendon sheath	0LQ70ZZ Repair Right Hand Tendon, Open Approach
85.23 Subtotal mastectomy	85.22 Resection of quadrant of breast	0HBT0ZZ Excision of Right Breast, Open Approach

Varying Specificity in ICD-9-CM:
Approaches Unique to Pituitary Gland

I-9 contains	I-9 also contains	PCS contains
07.69 Total excision of pituitary gland, unspecified approach	07.64 Total excision of pituitary gland, transfrontal approach	0GT00ZZ Resection of Pituitary Gland, Open Approach
	07.65 Total excision of pituitary gland, transsphenoidal approach	
	07.68 Total excision of pituitary gland, other specified approach	

GEM Files Users Guide: How to Use GEM Files

Step 2: ANALYZE

ANALYZE

Note any flags applied to the code and understand what they convey about the entry.

Is the “approximate” flag turned on?

- If yes, the correspondence is not a precise equivalent.

Is the “no map” flag turned on?

- If yes, there is no corresponding code in the target system.

Is the “combination” flag turned on?

- If yes, more than one code in the target system is required to satisfy the meaning of the code in the source system.

In the I-9 to PCS GEM, there are three flags:

Approximate *indicates that the entry is not considered equivalent*

No Map *indicates that a code in the source system is not linked to any code in the target system*

Combination *indicates that more than one code in the target system is required to satisfy the full equivalent meaning of a code in the source system*

In the PCS to I-9 GEM, the “approximate” and “combination” flags are used. The “no map” flag is not used. All PCS codes are linked to one or more I-9 alternatives.

GEM Files Users Guide: Glossary

Glossary

Approach—a character of the seven-character ICD-10-PCS code that “defines the technique used to reach the site of the procedure”

Approximate flag—attribute in a GEM that when turned on indicates that the entry is not considered equivalent

Applied mapping—distillation of a reference mapping to conform to the needs of a particular application (i.e., reimbursement)

Backward mapping—mapping that proceeds from a newer data set to an older data set

Choice list—in a combination entry, a list of one or more codes in the target system from which a code must be included to satisfy the equivalent meaning of a code in the source system

Combination flag—attribute in a GEM that when turned on indicates that more than one code in the target system is required to satisfy the full equivalent meaning of a code in the source system

Combination entry—an entry in the GEM for which a code in the source system must be linked to more than one code option in the target system to be a valid entry

Forward mapping—mapping that proceeds from an older data set to a newer data set

General Equivalence Map (GEM)—reference mapping that attempts to include all valid relationships between the codes in the ICD-9-CM procedure classification and the ICD-10 Procedure Code System (ICD-10 PCS)

GEM Files Users Guide:

File and Format Info

ICD-10-PCS to ICD-9-CM General Equivalence Map (GEM) FILE AND FORMAT

FILE NAME: Map_pcsi9.txt

FILE FORMAT:

FIELD	POSITION	LENGTH	VALUE
ICD-10-PCS Code [source]	1 – 7	7	Left justified, blank filled No decimal
<i>Filler</i>	8	1	<i>Blank</i>
ICD-9-CM Code [target]	9 – 12	4	All seven characters used
<i>Filler</i>	13	1	<i>Blank</i>
Approximate [FLAG]	14	1	1 = Yes/On 0 = No/Off
Combination [FLAG]	15	1	1 = Yes/On 0 = No/Off
<i>Filler</i>	16	1	<i>Blank</i>
Scenario#	17	2	0 – 99
<i>Filler</i>	19	1	<i>Blank</i>
Choice list#	20	1	0 – 9

Plans for Volume 2 2007-2008

- Sections B-D (Imaging, Nuclear Medicine, Radiation Oncology) update to reflect the latest technology and application
- Two-year process
 - Review current tables
 - Look for enhancements consistent with current technology and clinical practice
 - e.g., where use of procedure has expanded add body-part choices to specific tables

Plans for 2008 Update

- Update system as needed to reflect industry developments
- Further refinement/enhancement in preparation for implementation
- Draft version of DRGs using ICD-10 codes

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